Combined Arms Collective Training Facility (PN 001535)
Fort Riley, KS
DACA41-03-B-0004

Questions and Answers (SET No. 3)
16 Sep 03

General Questions

1. Please verify the scales on the "ES" drawings.

ES100 indicates 1 to 500 feet, however, one segment of the scale equals 1 1/4", so does 1 inch equal 500 feet or does 1 1/4 inch equal 500 feet?

Additionally, drawings ES101 through ES110 indicates a scale of 1 inch to 60 feet. Please review as when we check the scale on these drawings 1 inch equals 30 feet.

The graphic part of the scale is shown correctly for the plans, the text however needs to match the scale of the graphic. For instance on ES100, one full bar equals 500 ft; on ES101, one full bar equals 30 ft.

2. Fixture "J"

Please provide fixture detail/description for four type "J" fixtures shown on sheet B_E-100. This fixture is not included on the fixture schedule, sheet E-904.

Fixture "J", shown on sheet B_E-101, should be type SF5 with 2 lamps, surface mount wraparound with acrylic lens.

3. Fixture "S"

Please provide fixture detail/description for one type "S" fixtures shown on sheet A_E-100. This fixture is not included on the fixture schedule, sheet E-904.

Fixture "S", shown on sheet A_EL101, should be type FF1 with 1 lamp, fluorescent under cabinet task light. See sheet A_IN407 for approx dimensions.

4. Panic Button

With respect to Q & A set 2, item 14, we are aware of the type of button to provide, but, with the exception of building "A" - ROC / AAR, are still unclear as to the purpose of the button. Note 13 on sheet A_EP101, for the ROC / AAR states "CONNECT PANIC BUTTONS TO MAIN CIRCUIT BREAKER TO TRIP ON ACTIVATION". Please clarify if the panic buttons shown in various other buildings should be connected to that facilities main circuit breaker, similar to Bldg A - ROC / AAR.

The purpose of the panic buttons in the ROC/AAR, building "A", is shown in the Fire Detection and Alarm System Matrix. The purpose of the panic buttons in the training buildings is an override function for all the lights in that particular building to turn on, should an emergency

situation occur. The wiring for the panic buttons in the training buildings "D" - "R" is to be done by others.

5. Specifications 13121A Metal Building Systems, para. 2.2.1 Roofing states: Panels shall have a configuration for overlapping sheets.
Paragraph 2.2.1 seems to indicate that a standard exposed fastener panel can be utilized for the roofing system instead of a standing seam metal roof system as described in specifications section 07416 and as noted on Detail D, Drawing Q_AE201. Please clarify.

The roofing is to be Standing Seam Metal Roof as called out in the drawings, refer to section 07416.

6. Specifications 13121A Metal Building Systems, para 2.2.2 Siding states: Siding shall be fastened to framework using concealed fasteners.
The manufacturer standard exterior wall panel is an exposed fastener panel. Please clarify the requirement for a concealed fastener wall panel.

For storage security purposes, Fort Riley prefers concealed fasteners as required in the Specifications (13121A, par. 2.2.2).

7. Drawing Q_AE101, Detail 3 Roof Plan, indicates the presence of snow guards but there does not appear to be a specification for these items. Please clarify the specification location

B / A_AE401 is a typical snow guard detail. There is currently no specification for snow guards.

8. Drawing Q_SE101, Prefabricated Catwalk Nates. Note 5a states: Catwalk columns or hangers shall be limited to the number and locations as shown on the catwalk plans. Catwalk columns or hangers shall be non-tapered steel tubes and shall be anchored to the building floor slab with a minimum of (4) wedge type expansion anchors. This note refers to the catwalk plans but unable to locate these plans in the bid documents. Can you clarify where they are located. The notes state that the catwalk is to be anchored to and supported by the floor slab but the drawings seem to indicate that the system is to be suspended from the structure above. Please clarify.

The catwalk should be supported from the structure above using hangers. The plans for the catwalk are shown as 2/Q_SE101 and addition plans are shown on the architectural plans. The plans are referred to as Mezzanine Plan on 2/Q_AE101.

9. Drawing Q_SE301, Detail Section "A". This detail indicates that there is no insulation in the wall system of the warehouses. Please clarify if there is to be insulation in either the roof or wall systems for the warehouse buildings.

The warehouses do not have insulation in the roof or wall systems.

10. Xfmr T-1 to T-2 Feeder / Conduits
The drawings references Note 2 for conduit / feeder between Xfmr T-1 and T-2 on sheet ES501. NOTE 2 states, "Single Phase Medium Voltage Cable see Feeder

Schedule, Sheet ES504, Feeder # 18 for size". Feeder #18 indicates 1 - #2 15kV, 1 - #2 600v Neutral in 103 mm conduit. This conflicts with sheet ES101 which indicates that the duct bank configuration between T-1 and T-2 shall be a H4/H2/H4 where details H4 and H2 indicate having 3 - #2 15kV, 1 - #2 600v Neutral in 103 mm conduit as if for a 3 Phase Transformer.

Which drawing is correct in regards to how many cables are to installed in the duct bank system between T-1 and T-2?

Sheet ES501, Note 2 should read: Single Phase Medium Voltage Cable. See Feeder Schedule, Sheet ES504, Replace Feeder #1 with Feeder #18 in Duct bank Details.

More Clarification; Duct banks to Single Phase XFMR's should have Single Phase and Neutral in 103 mm conduit. This applies for XFMR's T-3, T-4, T-5, T-6, T-7, T-8, T-9 T-10, T-12, T-13, T-14, T-15, T-16 and T-17.

11. The only duct bank detail showing Feeder #18 is Type H21. In detail H21, feeder #18 conduit appears to be a 41mm conduit. However, the feeder schedule for feeder #18 indicates a 103mm conduit. Which size conduit is correct?

With the above noted, the number 18 in type H21 should be 16 as to correlate with type C21 and site plans.